

# MeghRaj

Department of Electronics & Information Technology  
Ministry of Communications & IT  
Government of India

# Indian Government Initiative (GI Cloud – MeghRaj)

## Need of the Hour

- Optimum utilization of Infrastructure
- Speeding up the IT procurement cycle
- Moving from Capex to Opex model
- Infrastructure elasticity – scale up & scale down
- Easy replicable productized applications at one place

*Paradigm shift in the way Government procures the infrastructure and deploys the e-Gov applications*

# GI Cloud – MeghRaj Objective

- Speeding up the development and deployment of eGov applications
- Increased cost savings are realized with the pay-per-use model without significant investment in infrastructure purchase and maintenance
- Infrastructure can be instantly added / removed to the existing applications to meet their sudden demand peaks / lows
- The self-service & automated characteristics of cloud shorten or offloads procurement completely to the cloud service provider bringing about faster procurement cycles
- Instant access to ICT resources brings agility to the service delivery

# MeghRaj (GI Cloud): Vision and Policy

## Vision

To accelerate delivery of e-services provided by the government and to optimise ICT spending of the government. Hence to support overall vision of NeGP (**improved government services to common man**)

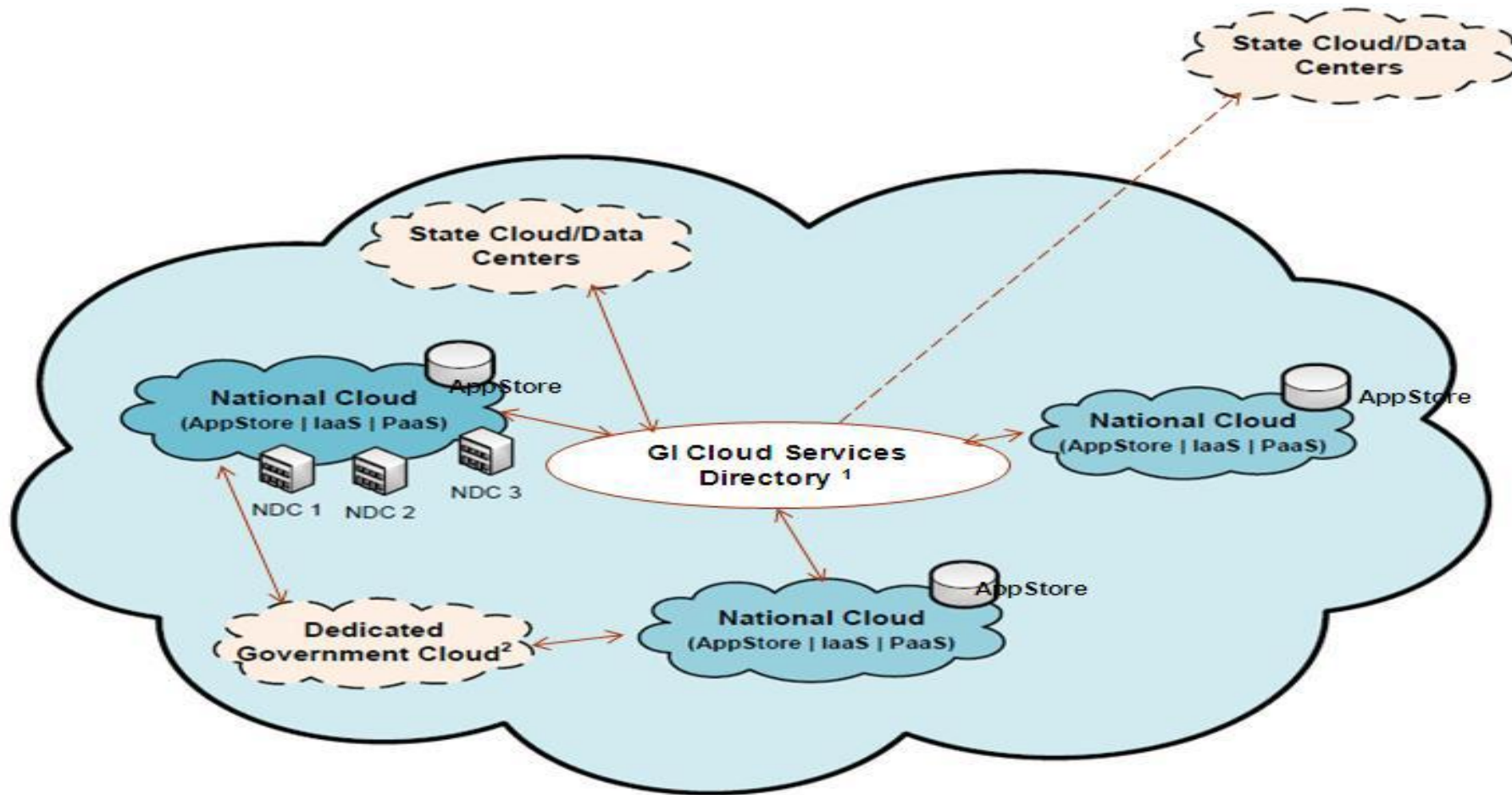
## Policy

Government departments at the centre and states to first evaluate the option of using the GI Cloud for implementation of all new projects funded by the government. Existing applications, services and projects be evaluated to assess whether they should migrate to the GI Cloud.

## Policy Principles

- All Government clouds to follow the standards & guidelines set by Government of India.
- At the time of conceptualization of any new MMP or other government project the existing services (IaaS, PaaS, SaaS) of GI Cloud to be first evaluated for usage.
- All new applications to be cloud ready.

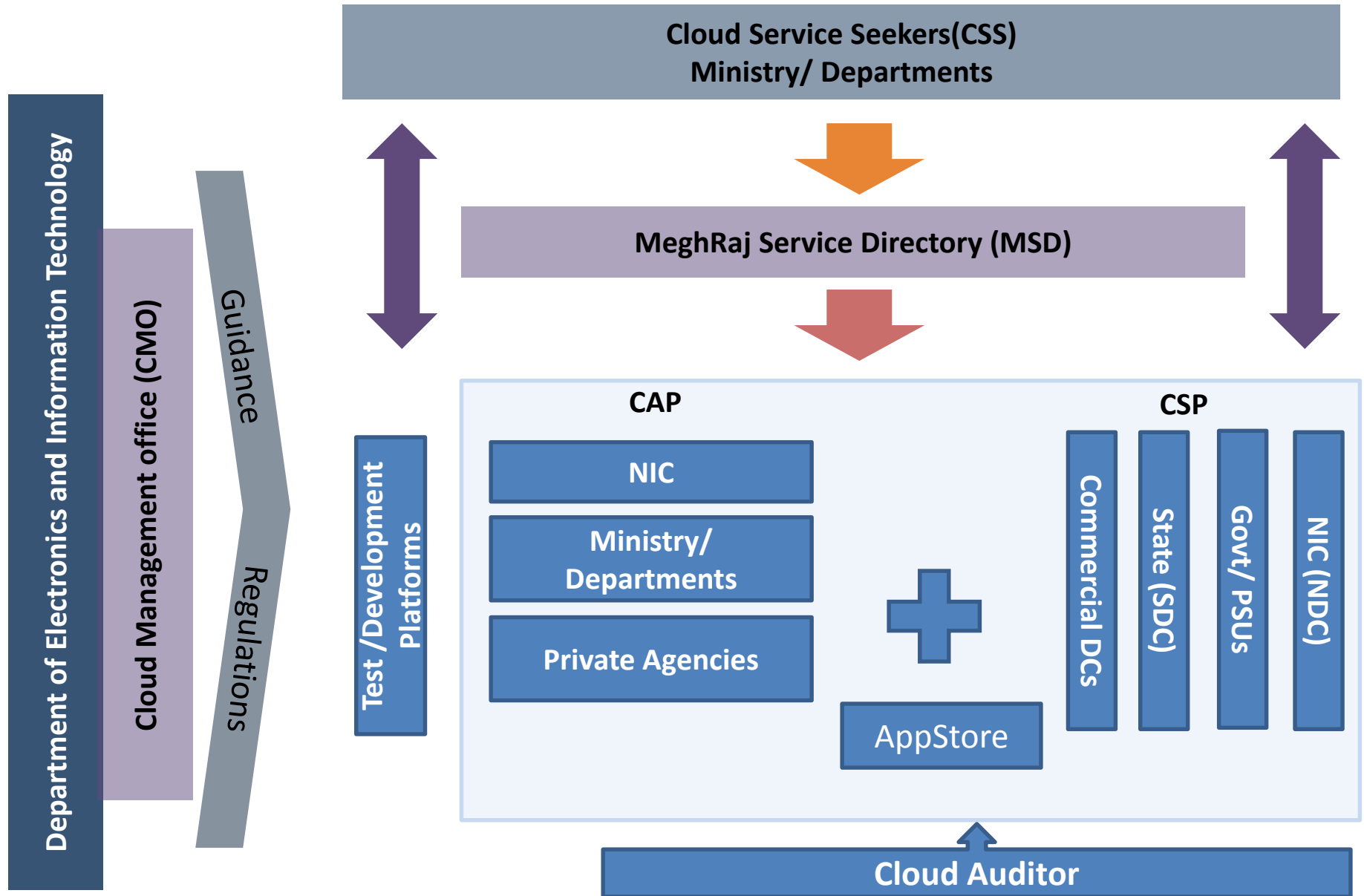
# MeghRaj (GI Cloud): Architecture



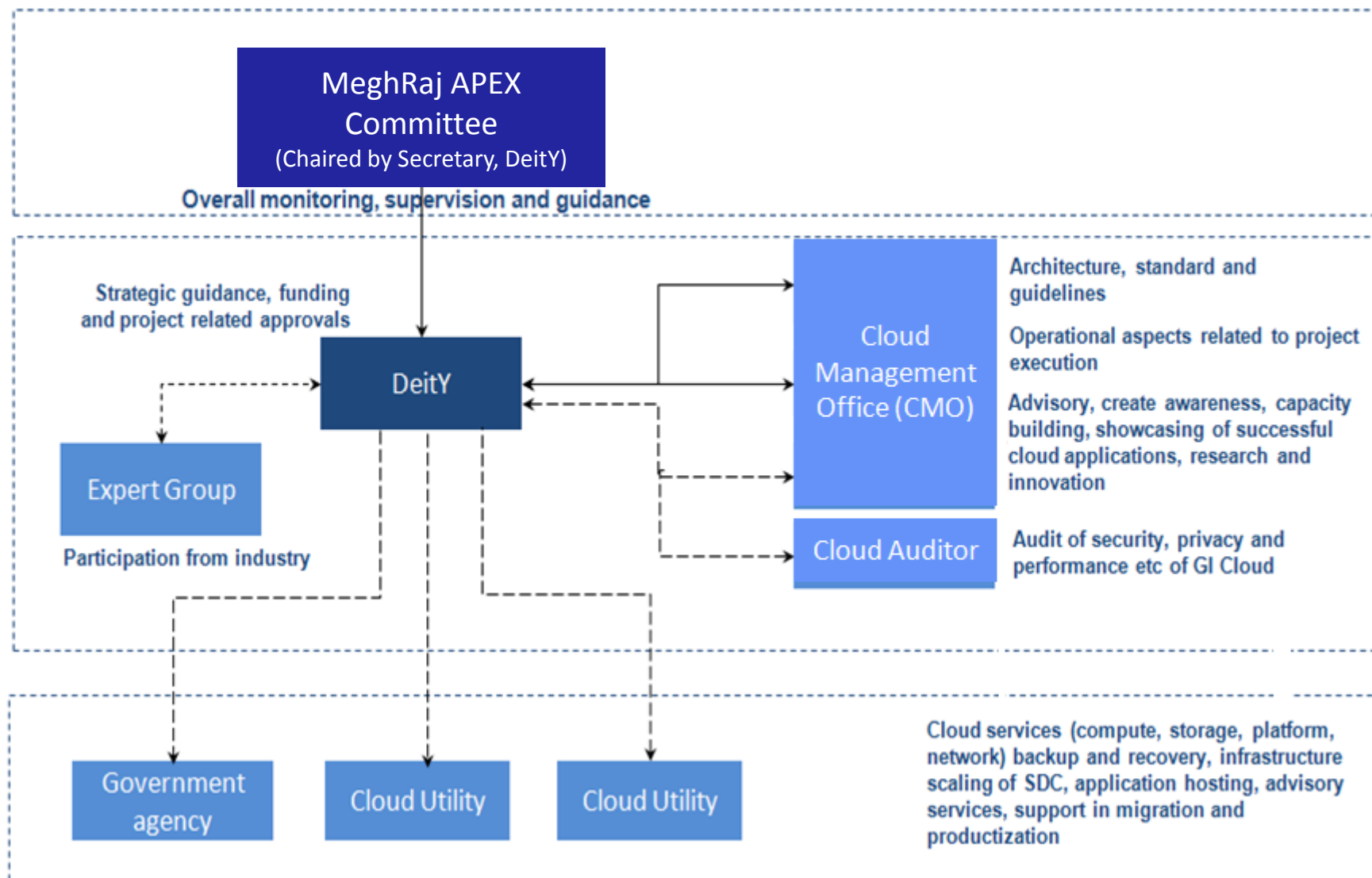
<sup>1</sup> Single Portal for Service Delivery

<sup>2</sup> Built by private cloud providers

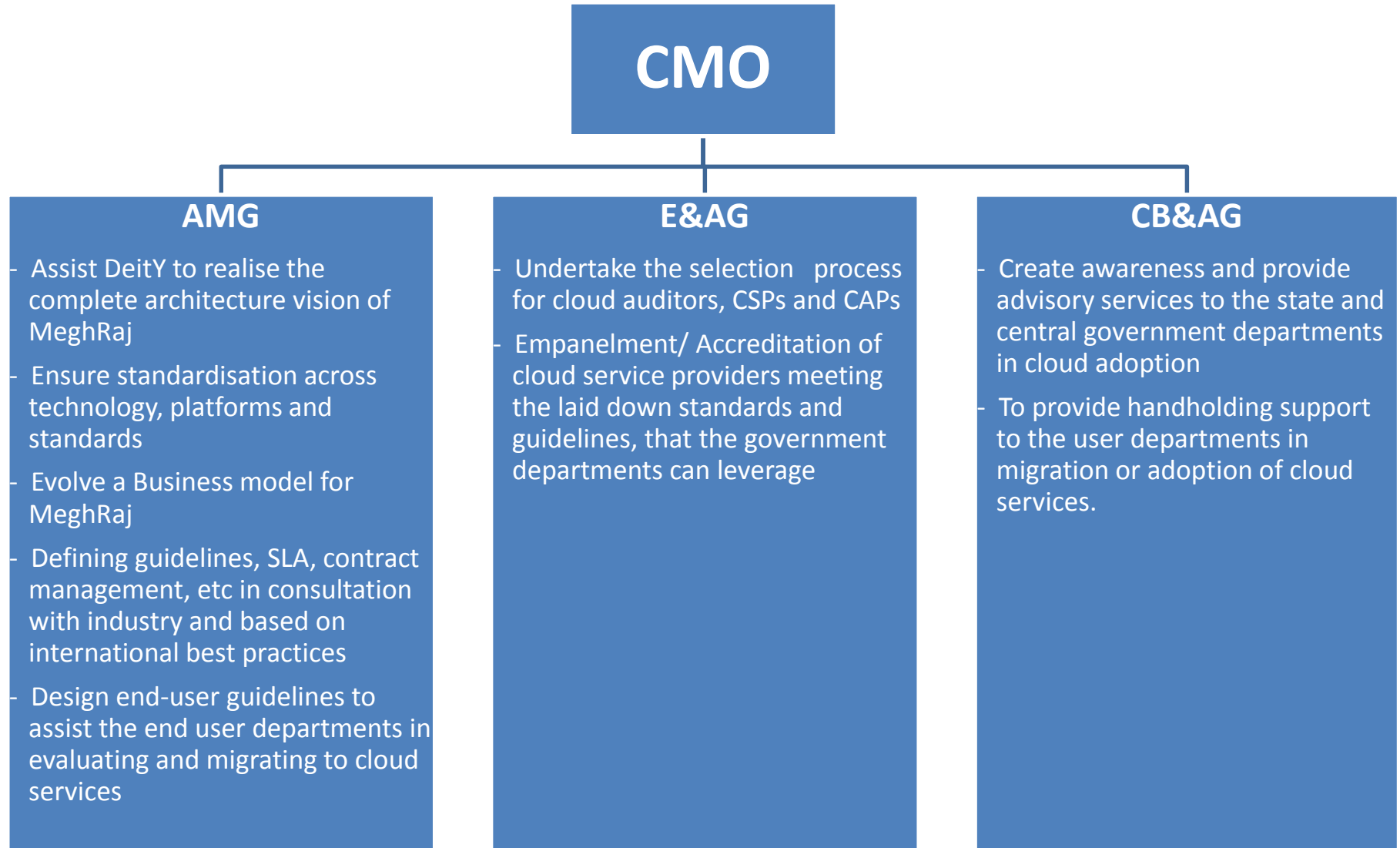
# Components Under MeghRaj



# GI Cloud Governance Structure



# Cloud Management Office (CMO)



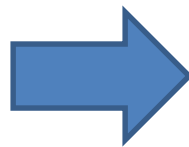


# First National Cloud under MeghRaj

- National Cloud is a start-of-the-art secured government Cloud set up by NIC providing services over the ICT Infrastructure spanning its National Data Centers
- The Cloud Services available are Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS) and Storage as a Service (STaaS). NIC is providing Cloud services under the umbrella of MeghRaj



Secure Self Service Portal



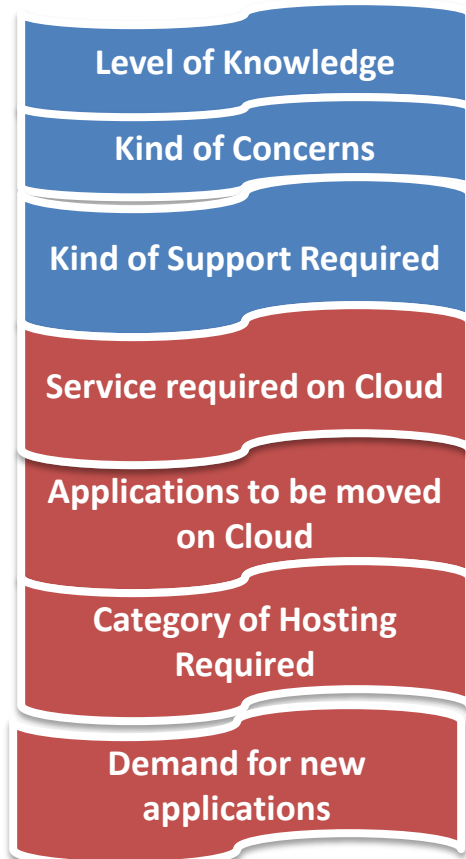
## CLOUD SERVICE OFFERINGS



- ✓ As on date, 181 Departments / Ministries have shown interest in availing cloud services
- ✓ 34 Departments/ Ministries are accessing the services from National Cloud

# Outcome of Demand Assessment Survey

## Outcome of the Survey



## Capacity Building and Handholding

- Awareness Sessions
- Technical Workshops
- Hands-on Training
- Supporting in designing Strategy

## Meeting Demand

- Expansion of Existing Cloud
- Setting up of new categories of Cloud
- Bringing new services on Cloud (DR, Test etc)
- Support in Migration
- Adding new applications on app store

# eGov AppStore

A common repository and market place of customizable & configurable applications at National Cloud which can be re-used by various government agencies /departments at Center and States without investing effort in development of such applications



**Speeding** up the development and deployment of eGov applications

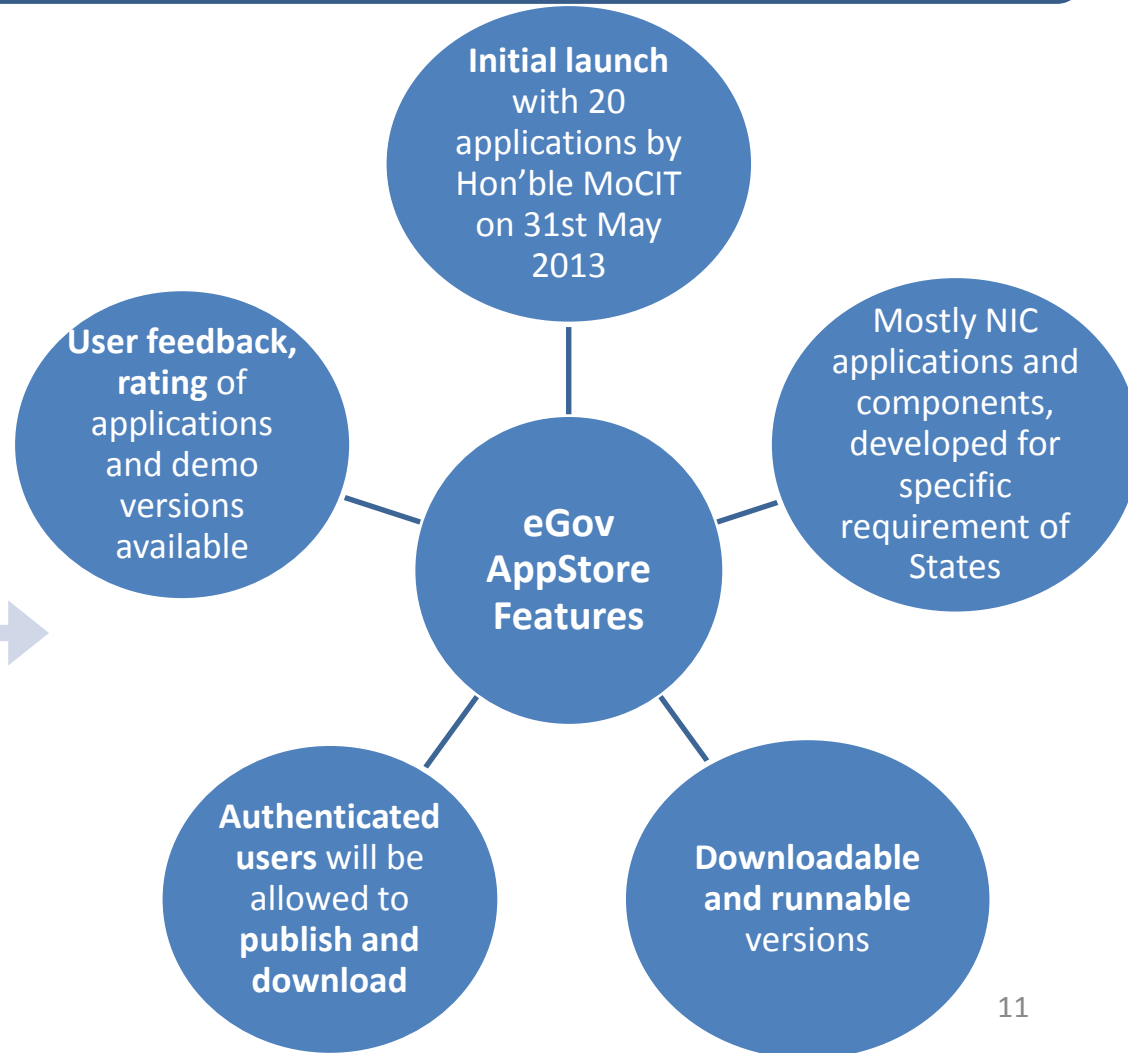
Easy **replication** of successful applications across States

Avoid **duplication** of effort and cost in development of similar application

**Availability** of certified applications following common standards at one place

## Objectives

9/12/2014



# Progress so far

## Achievements so far

- **Two Cloud reports published in June 2013**
  - *'GI Cloud Strategic Direction Paper'*
  - *'GI Cloud Adoption and Implementation Roadmap'*
- **National Cloud by NIC phase-I launched on 4<sup>th</sup> Feb'14**
- **National AppStore launched**
- **Demand Assessment for Cloud Services**
- **Developing Cloud Selection framework**
- **SDCs being Cloud enabled – Template RFP shared**
- **Awareness Workshops for Departments and Ministries**
- **Categorization of Cloud Models for Govt. Of India**
- **SFC approved the proposal for setting up of Cloud Management Office (CMO) under MeghRaj**
- **NDC and SDC Cloud usage guidelines for Government user departments**

# Activities Underway

- Working with NIC to define the service levels, contractual obligation and tariff plans
- Preparation of **Process, Policies, Guidelines, Framework, Templates** etc
- **Empanelment and Accreditation of Private Cloud Service Providers under MeghRaj**
- **Capacity building** programs and providing handholding to Govt Departments/ Ministries
- **Bringing up new National level cloud under MeghRaj**
- **Implementation on MeghRaj Service Directory**
- **Setting up of Development, Test and Training environment for Cloud**
- **Transforming applications into productized and Cloud ready form**
- **Augmentation to include applications and components developed by various players including private**
- **Policy for onboarding application developed by private players on eGov AppStore**
- **Business and Sustenance Model**

# THANK YOU